



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

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May 3, 2000

Darin Olson  
ECDC Environmental L.C.  
1111 West Highway 123  
P.O. Box 69  
East Carbon, Utah 84520

Re: Tentative Approval of Permit Amendment, ECDC Environmental L.C., ECDC Clay Mine,  
M/015/062, Emery County, Utah

Dear Mr. Olson:

The Division has completed a review of your April 3, 2000 response, to our January 18, 2000 deficiency review letter. After reviewing this latest information, it has been determined that this application is considered an amendment and not a revision; therefore, we are not required to publish public comment for an amendment. The Division is now prepared to grant tentative approval of this permit amendment to the ECDC Clay Mine large mining permit application.

Prior to issuing final approval of this amendment, a replacement Reclamation Contract (Form MR-RC) must be completed and filed with this office. It must be attached to the revised reclamation surety for this project. The new reclamation surety amount is \$63,100. You may file a "rider" to your existing surety bond or post another form of reclamation surety. We have enclosed another blank surety bond form if you choose to refile a new surety bond. If you choose to post a different type of surety, please let us know which type so we can provide you with the appropriate form. Please provide us with a "draft" copy of the completed reclamation contract and surety form before they are finalized so we can review them for completeness and accuracy.

Please contact me, Doug Jensen or Joelle Burns at (801) 538-5286, 538-5382 and 538-5291 respectively, if you have questions in this regard. Thank you for your cooperation and patience in completing this permitting process.

Sincerely,

D. Wayne Hedberg  
Permit Supervisor  
Minerals Regulatory Program

jb

Enclosures: Form MR-RC, guideline, surety bond form  
M15-62.tentapp.wpd

	B	C	D	E	F	G	H
1	RECLAMATION SURETY ESTIMATE						
1	RECLAMATION SURETY ESTIMATE						
2	ECDC			last revision	04/10/00		
3	ECDC Clay Mine						
4	M/015/062			Emery			
5	Prepared by Utah State Division of Oil, Gas & Mining						
6	-This estimate uses a D9 size dozer for most earthwork						
7							
8	Contingencies in estimate:						
9	A loader and a dozer was used to replace the topsoil and overburden in the plan.						
10	1' of topsoil to be placed in addition to the 1' of overburden material on selected areas within mine site						
11							
12	Equipment mobilized: Seed Drill						
13	Note: actual unit costs may vary according to site conditions			last unit cost update	10/12/98		
14	-Amount of disturbed area which will receive reclamation treatments =				25.4 acres		
15	-Estimated total disturbed area for this mine =				25.4 acres		
16	Activity	Quantity	Units	\$/unit	\$	Note	
17	Safety gates, signs, etc. (mtls & installation)	0	sum	200	0	(1)	
18							
19	Demolition of buildings & facilities	0	CF	0.25	0	(2)	
20	Debris & equipment removal - trucking	2	trips	48	96	(3)	
21	Debris & equipment removal - dump fees	0	ton	55	0	(4)	
22	Debris & equipment removal - loading trucks w/FE loader	5	hours	176	880	(5)	
23	Demolition & debris removal - general labor	10	hours	15	150	(6)	
24	Regrading facilities areas	0.0	acre	337	0	(7)	
25							
26	Regrading overburden dump slopes	7,500	CY	0.33	2,475	(8)	
27	Ripping waste dump tops	0.0	acre	250	0	(9)	
28							
29	Ripping stockpile & compacted areas	7.7	acre	250	1,925	(9)	
30							
31	Ripping pit floors	14.5	acre	250	3,625	(9)	
32	Ripping pit access roads	0.0	acre	250	0	(9)	
33	Creating safety berms or barriers around highwalls	0	LF	0.11	0	(10)	
34							
35	Ripping access roads - dozer (1' depth)	3.2	acre	250	788	(9)	
36	Regrading access roads - dozer	0.0	acre	337	0	(7)	
37	Sidecast mtl replacement on steep roads- trackhoe	0	LF	0.85	0	(11)	
38						(10)	
39	Overburden Replacement - loader (1' over 4 acres)	6450	CY	1.15	7,418		
40	Overburden Replacement - dozer (1' over 14 acres)	22000	CY	0.33	7,260		
41	Topsoil replacement - dozer	1700	CY	0.33	561	(12)	
42	Topsoil replacement - loader	7900	CY	1.15	9,085	(13)	
43	Topsoil replacement - truck & FE loader	0	CY	2.55	0	(14)	
44							
45	Mulching (2 ton/acre alfalfa)	0.0	acre	160	0	(00)	
46	Composted manure	25.4	acre	300	7,620	(00)	
47	Broadcast seeding	0.0	acre	170	0	(00)	
48	Drill seeding	25.4	acre	150	3,810	(00)	
49	Discing	0.0	acre	50	0		
50	General site cleanup & trash removal	5.0	acre	50	250	(00)	
51							
52	Equipment mobilization	1	equip	1000	1,000	(00)	
53							
54	Reclamation Supervision	5	days	372	1,860	(15)	
55			Subtotal		48,803		
56	10% Contingency				4,880		
57			Subtotal		\$53,683		
58	Escalate for 5 years at 3.27% per yr				9,370		
59			Total		\$63,053		
60			Rounded surety amount in yr 2005-\$		\$63,100		
61	Average cost per disturbed acre =		\$2,484				
62							
63							



estimate D9	B	C	D	F	G	H
1	RECLAMATION SURETY ESTIMATE					
61						
62						
63	GENERIC RECLAMATION ESTIMATE					
64	ECDC	last revision				10/12/98
65	ECDC Clay Mine					
66	M/015/062	Emery				
67	Prepared by Utah State Division of Oil, Gas & Mining					
68	last unit cost update	10/12/98				
69						
70	DOGM lump sum assumed					
71						
72	Means Heavy Construction Cost Data 1998, 020-604-0100, mix of bldg. types, avg, excluding dump fees					
73	Means 1998, 020-620-5100, \$0.48/mile for >8CY truck; assumed 100 miles round trip					
74	Means 1998, 020-612-0100, dump sharges, typical urban city, tipping fees only, bldg construction mtl's					
75	Rental Rate Blue Book 4/98, Cat 988B, 7CY, & Means 1998, Crew B-10U, loading trucks only					
76	DOGM assumed wage for unskilled general labor					
77	Means 1998 & Blue Book 4/98: Cat D9N, U, mtl 2550 lb/CY, 50 ft push, 1 ft depth					
78						
79	Means 1998 & Blue Book 4/98: Cat D9N, U, mtl 2550 lb/CY, 100 ft push					
80	Means 1998 & Blue Book 4/98: Cat D9N, U, multi shank rippers, speed 1.0 mph					
81						
82	Means 1998 & Blue Book 4/98: Cat D9N, U, multi shank rippers, speed 1.0 mph					
83						
84	Means 1998 & Blue Book 4/98: Cat D9N, U, multi shank rippers, speed 1.0 mph					
85	Means 1998 & Blue Book 4/98: Cat D9N, U, multi shank rippers, speed 1.0 mph					
86	Means 1998 & Blue Book 4/98: Cat D9N, U, mtl 2550 lb/CY, 50 ft push, avg vol 0.5CY/LF-berm assumed					
87						
88	Means 1998 & Blue Book 4/98: Cat D9N, U, multi shank rippers, speed 1.0 mph					
89	Means 1998 & Blue Book 4/98: Cat D9N, U, mtl 2550 lb/CY, 50 ft push, 1 ft depth					
90	Contractor's actual costs, 1991 at E/053/012, Cat 225 Excavator, 20 ft wide road					
91	Means 1998 & Blue Book 4/98: Cat D9N, U, mtl 2550 lb/CY, 50 ft push, avg vol 0.5CY/LF-berm assumed					
92						
93	Means 1998 & Blue Book 4/98: Cat D9N, U, mtl 2550 lb/CY, 100 ft push					
94	Means 1998 & Blue Book 4/98: Cat 688F , mtl 2550 lb/CY, 600 ft haul one-way, grade +/- 2%,					
95	Means 1998 022-266-2030: hauling excavated or borrow material, off highway hauler, 22 CY, 1 mile round trip					
96						
97	DOGM general estimate - mulching					
98	DOGM general estimate - fertilizing					
99	DOGM general estimate - manure \$40/ton delivered, \$260ton/acre spreading					
100	DOGM general estimate - broadcast seeding					
101	DOGM general estimate - drill seeding					
102	DOGM general estimate - hydroseeding					
103						
104	DOGM general estimate - site cleanup & trash removal					
105						
106	DOGM general estimate - equipment mobilization					
107						
108	Means 1998, 010-036-0180, project manager, minimum \$1,815/wk					
109						
110						
111						
112						
113						
114						
115						